Florida Department of Environmental Protection

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

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Lt. Governor

Michael W. Sole
Secretary

DRAFT PERMIT

E-CORRESPONDENCE
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PERMITTEE

Orange County Board of County Commissioners
Solid Waste Division
5901 Young Pine Road
Orlando, FL 32829

Authorized Representative:
James W. Becker, Division Manager

Air Permit No. 0950113-005-AC
Permit Expires: December 30, 2010

Orange County Solid Waste Management Facility
Major Source Air Construction Permit
Landfill Gas Collection System (Cells 9 -12) and a Candlestick Flare

This is a **DRAFT** air construction permit which authorizes construction of a Landfill Gas Collection System (Cells 9 -12) and a Candlestick Flare. The proposed work will be conducted at the Orange County Solid Waste Management Facility, which is a municipal solid waste disposal facility (Standard Industrial Classification No. 4953). The facility is located in Orange County at 5901 Young Pine Road, Orlando, Florida. The UTM coordinates are Zone 17, 481.20 km East, and 3150.30 km North.

This permit is organized by the following sections.

Section 1. General Information

Section 2. Administrative Requirements

Section 3. Emissions Unit Specific Conditions

Section 4. Appendices

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Upon issuance of this permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Orlando, Florida

_____
Caroline Shine
Program Administrator
Air Resource Management

_____
Date

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Air Permit package was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on November 12, 2009 to the persons listed below.

James W. Becker, Division Manager **(jim.becker@ocfl.org)**
Mehran S. Beladi, P.E. **(ron.beladi@neel-schaffer.com)**
Jodi Dittell, Air Section Manager, OCEPD, **(Jodi.Dittell@ocfl.net)**
Dan R. Morrical, P.E., Chief Engineer, Orange County Solid Waste Division, (**Dan.Morrical@ocfl.net**)

Clerk Stamp

FILED on this date, pursuant to Section 120.52 F.S., with the designated Department Clerk, receipt of which is hereby acknowledged.

_____ November 12, 2009
Clerk Date

FACILITY AND PROJECT DESCRIPTION

Existing Facility

The facility is the Orange County Solid Waste Management Facility which is a municipal solid waste disposal facility. The existing facility consists of the following emissions units.

Facility ID No. 0840124	
ID No.	**Emission Unit Description**
001	Municipal Solid Waste Landfill with Candlestick Flares

Proposed Project

Construct a Landfill Gas Collection System (Cells 9 – 12) with a Candlestick Flare. This project will add the following emissions unit.

Facility ID No. 0830124	
ID No.	**Emission Unit Description**
002	Landfill Gas Collection System (Cells 9 – 12) with a Candlestick Flare

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility has no units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400 (PSD), F.A.C.

SECTION 2. ADMINISTRATIVE REQUIREMENTS (DRAFT)

1. Permitting Authority: The permitting authority for this project is the Florida Department of Environmental Protection, Central District Office. The Central District Office's mailing address is 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803-3767. The phone numbers for Permitting Section are 407-893-3335 or 407-893-3334. All documents related to applications for permits to operate an emissions unit shall be submitted to the Central District Office.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Central District Office. The mailing address of the Central District Office is: 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803-3767. The phone number for Compliance Section is 407-893-3333.

3. Appendices: The following Appendices are attached as part of this permit:

   a. Appendix A. Citation Formats and Glossary of Common Terms;

   b. Appendix B. General Conditions;

   c. Appendix C. Common Conditions; and

   d. Appendix D. Common Testing Requirements. (if applicable)

4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.

5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]

6. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]

7. Source Obligation:

   (a) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

   (b) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification. [Rule 62-212.400(12), F.A.C.]

8. Application for Title V Permit *Revision*: This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. A **Title V** air operation permit *revision* is required for regular operation of the permitted emissions unit. The permittee shall apply for a **Title V** air operation permit *revision* at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation. **The expiration date of this construction permit is December 30, 2010.** To apply for a **Title V** operation permit *revision*, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the appropriate Permitting Authority with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220 and Chapter 62-213, F.A.C.]

This section of the permit addresses the following emissions unit.

ID No.	Emission Unit Description
002	Landfill Gas Collection System (Cells 9 – 12) with a Candlestick Flare

PERFORMANCE RESTRICTIONS

1. Permitted Capacity: The average landfill gas flow rate to the candlestick flare shall not exceed 3,400 scfm. [Rule 62-210.200(PTE), F.A.C. and as requested by the applicant]

2. Restricted Operation: The hours of operation of the candlestick flare are not limited (8760 hours per year). [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

3. Landfill gas must be flared in accordance with the requirements of 40 CFR 60, Subpart WWW. [Rule 62-4.070, F.A.C.]

EMISSIONS STANDARDS

4. Emissions Standards: The visible emission limitation for the flare must comply with 40 CFR 60.18 (no visible emissions except for periods not to exceed a total of 5 minutes during any 2 consecutive hours). [40 CFR 60.18(b)]

TESTING REQUIREMENTS

5. Initial Compliance Tests: The emissions unit shall be tested to demonstrate initial compliance with the emissions standards for visible emissions. The initial tests shall be conducted within 60 days after achieving permitted capacity, but not later than 180 days after initial operation of the unit. [Rules 62-4.070(3) and 62-297.310(7)(a)1, F.A.C.]

6. Annual Compliance Tests: During each federal fiscal year (October 1st to September 30th), the emissions unit shall be tested to demonstrate compliance with the emissions standards for visible emissions. [Rule 62-297.310(7)(a)4, F.A.C.]

7. Test Requirements: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(7)(a)9, F.A.C.]

8. Test Methods: Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
EPA 22	Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares

The observation period is 2 hours.

The above methods are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-204.800 and 62-297.100, F.A.C., 40 CFR 60.18(f)(1), and Appendix A of 40 CFR 60]

9. The flare control system shall be operated with a flame present at all times, as determined by a thermocouple or any other equivalent device to detect the presence of a flame. Owners or operators of flares used to comply with the provisions of this subpart shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how owners or operators of flares shall monitor these control devices.
[40 CFR 60.18(b) through (f) and 40 CFR 60.18(d)]

RECORDS AND REPORTS

10. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. For each test run, the report shall also **indicate the potential and actual fugitive emission points on the sketch. Additionally, sketch the process unit being observed, and note the observer location relative to the source.** [Rule 62-297.310(8), F.A.C.]

11. Operational Data: In order to demonstrate compliance with specific condition number 1 and pursuant to Rule 62-4.070(3), F.A.C., the permittee shall maintain a monthly log at the facility for a period of at least five years from the date the data is recorded. The log shall contain the following:
    a) Designation of the day, month, and year of operation for which the records are being tabulated; and
    b) Hourly landfill gas glow rate to the flare.

NSPS & NESHAP REQUIREMENTS

12. This emission unit is subject to the applicable requirements of 40 CFR 60, Subpart A, General Provisions, 40 CFR 60, Subpart WWW, NSPS for Municipal Solid Waste Landfills and 40 CFR 63, Subpart AAAA, NESHAP for Municipal Solid Waste Landfills.